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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,328	09/22/2005	Dan Salomonsson	43315-212374	1471
26694 7590 01/20/2009 VENABLE LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998			EXAMINER	
			PILKINGTON, JAMES	
			ART UNIT	PAPER NUMBER
			3656	
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			01/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/521,328 SALOMONSSON ET AL. Office Action Summary Examiner Art Unit JAMES PILKINGTON 3656 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 January 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 14 January 2005 and 13 January 2009 is/are: a) □ accepted or b)⊠ objected to by the Examiner Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date ______.

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Drawings

 Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1-5 and 14-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Nissfolk, USP 6,125,715.

Re clms 1-5, 14-17, 19 and 20, Nissfolk discloses an industrial robot having:

- a first part (assembly 6)
- a second part (2), wherein the first part (6) and the second part (2) are arranged to be movable with respect to each other

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a first contacting/securing point (47) arranged on the first arm (6)

- a second contact/securing point (above 38) arranged on the second part
 (2)
- at least one cable (35) extending from the first contacting/securing point
 (47) to the second contacting/securing point (above 38)
- an internal cavity (channel covered by 37, C3/L38-41) wherein an excess
 of cable (35) extends freely through the internal cavity from the first
 contacting/securing point (47) to the second contacting/securing point
 (above 38) such that as the first part and the second part move relative to
 each other, the internal cavity accommodates the excess of cable moving
 back and forth between slack and tension (see coil)
- wherein one of said parts [first or second] rotates or pivots about the other part [first or second] (6 rotates about connections on 2)
- wherein one of the parts (6) comprises an electric motor (drive assembly 8, C2/L40-45).
- wherein said excess of cable (35) forms an arch inside the internal cavity (a coil is a plurality of arches)
- wherein said excess of cable (35) forms a spiral inside the internal cavity (see coil)
- wherein the first and second contact/securing points are releasable connected to the first and second parts (the cable can be removed)

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 wherein the at least one cable (35) transmits electricity, an electric signal, an optic signal, or a substance (c3/L38-41)

Re clm 18, Nissfork discloses all of the structure being claimed, see above. The operation of tensioning the cable is merely a process which happens upon the movement of the arm and according to MPEP 2112.02:

2112.02 Process Claims

PROCESS CLAIMS — PRIOR ART DEVICE ANTICIPATES A CLAIMED PROCESS IF THE DEVICE CARRIES OUT THE PROCESS DURING NORMAL OPERATION

Under the principles of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. In re King, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986) (The claims were directed to a method of enhancing color

In the case of Nissfork the tensioning of the cable happens during normal and usual operation and therefore anticipates the claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skil in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nissfolk. USP 6.125.715.

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Nissfolk discloses all of the claimed subject matter as disclosed above. Nissfork also discloses that the excess of cable (35) extends along an inner wall of the internal cavity (inside the cavity therefore it extends along an inner wall).

Nissfolk does not disclose that the excess of cable is in an s-shape within the cavity.

It would have been an obvious to one having ordinary skill in the art at the time the invention was made to arrange the cable in an S-shape. Since the Applicant is silent to any particular criticality for the cable being in an S-shape any arrangement of the excess of cable would be an obvious matter of design choice. Such an arrangement would yield the predictable result of allowing movement in the cable which then allows movement between the two arm parts.

Claim Rejections - 35 USC § 102 and 103

 Claims 8-13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nissfolk '715.

Nissfolk discloses or renders obvious a method of connecting at least part of at least one cable (35) between a first part (6) and a second part (2) of an industrial robot which are arranged to be movable with respect to each other where said at least one cable (35) extends from a first contact/securing point (55, seal/connection to the first arm part) on the first part (6) to a second contact/securing point (40a,40b,41,42) on the second part (2) via an internal cavity (location of spiral) comprising connecting/securing said at least one cable to the first contact/securing point (55), moving the first and second contact/securing points into a position where they are furthest from each other

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(to ensure enough cable is present), extending a length of cable (35, spiral) freely through the internal cavity from the first contact/securing point (55) to the second contact/securing point (40a,40b,41,42) and connecting/securing said at least one cable releasably to the second part (2), rotating the parts to increase or decrease the tension on the cable, wherein the cable is an arch, spiral or s-shaped and extends along an inner wall of the cavity.

Double Patenting

7. Claim 19 and 20 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 1 and 17. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Response to Arguments

- Applicant's arguments filed 1/13/09 have been fully considered but they are not persuasive.
- 9. The Applicant's argument is that Nissfork does not disclose an industrial robot that includes a cable extending through an internal cavity from a first contact/securing point to a second contact/securing point wherein the internal cavity accommodates an excess of cable.

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The Examiner first notes that the references characters relied upon in the rejection have been changed as necessitated by the Applicants amendment. In addition, the claim does not require that the contact/securing points be located within the internal cavity. The contact/securing points of Nissfork are the connection points within the arm parts, which makes them "on" the arm parts as claimed, and the cable extends out of the arm parts and into the cavity where the excess is coiled and protected from the outside environment.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES PILKINGTON whose telephone number is Application/Control Number: 10/521,328

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(571)272-5052. The examiner can normally be reached on Monday-Friday 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES PILKINGTON/ Examiner, Art Unit 3656 1/26/09

/Richard WL Ridley/ Supervisory Patent Examiner, Art Unit 3656